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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/715,418

DATE: 10/19/2001  
TIME: 11:25:00

Input Set : A:\09-715,418 sequence listing Attorney docket 10716-12.txt  
Output Set: N:\CRF3\10192001\I715418.raw

3 <110> APPLICANT: CURAGEN CORPORATION  
4 RASTELLI, LUCA  
6 <120> TITLE OF INVENTION: WNT-REGULATED CYTOKINE-LIKE POLYPEPTIDE AND NUCLEIC  
7 ACIDS ENCODING SAME  
9 <130> FILE REFERENCE: 10716/12  
11 <140> CURRENT APPLICATION NUMBER: 09/715,418  
C--> 12 <141> CURRENT FILING DATE: 2000-11-19 14  
14 <150> PRIOR APPLICATION NUMBER: 60/166,177  
15 <151> PRIOR FILING DATE: 1999-11-18  
17 <160> NUMBER OF SEQ ID NOS: 48  
19 <170> SOFTWARE: PatentIn Ver. 2.1  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 212  
23 <212> TYPE: DNA  
24 <213> ORGANISM: Mus sp.  
26 <400> SEQUENCE: 1  
27 gaattcagtg atgttagagag ggcattttagac acactcatca agaacttcca taaatactct 60  
28 gtggcgggta aaaaggaaac actgaccctt gctgagcttc gagacctggt tacccagcag 120  
29 ctgccacacc tcatgcccgg caactgtggg tttagaagaga aaattgccaa octggcaac 180  
30 tggtaatgtactt cggaaacttggaa gtttggaaagc tt 212  
33 <210> SEQ ID NO: 2  
34 <211> LENGTH: 1670  
35 <212> TYPE: DNA  
36 <213> ORGANISM: Mus sp.  
38 <220> FEATURE:  
39 <221> NAME/KEY: modified\_base  
40 <222> LOCATION: (1541)  
41 <223> OTHER INFORMATION: "n" represents a, t, c, g, other or unknown  
43 <400> SEQUENCE: 2  
44 tcagggtggc tggctctcc atccctgtctc ccagctgcca gcagggtctcc ccctctctca 60  
45 ggttagatcat gatccatcaag ctccctgtggg gcagggtata ggacagacgaa caaaaactcaa 120  
46 ctcacagaag gaaggaccag tgtaccagga acgtgggac agtgcggc agccaatgt 180  
47 gaggatgccc aagaattttagt tggatgttagag agggccattt agacactcat caagaacttc 240  
48 cataaaatactt ctgtggcggtt taaaaaggaa acactgaccc ctgctgagct tcgagacctg 300  
49 gttaccggc agctgcacca cctcatgccc agcaactgtt ggttagaaga gaaaatttgc 360  
50 aacctggca actgtaatga ctcgaaactt gatgtggaa gcttctggg gttgatttgg 420  
51 gaagcagcca agagtgtt gatggagagg cctgttactc ggagctgagg acttctactt 480  
52 ggaacttggtt ggggggtttt gggatagggg agtttttagag gcactggaaa taaaaccctc 540  
53 aatgcccacc acccccttcc ccagectgca cctctctca ttgctgcaat gttcacgttc 600  
54 aggacaggct tccctgtggg ctccatggag ctcctgggtc cagaagtccatctcaagg 660  
55 gagctcagggtt ggtgggttgg ggctggagag gatatgcagg gatcctggaa ggttaaggc 720  
56 caagcaattt ggttagtaggg gaagggcaga aaggaactgg gttatggaa tgatccaaag 780  
57 agcagggtatg ggaatctggc tgcataatgg gtcctgaaaa ggggtgtctga gaaacctaccc 840  
58 cttctataatc ttgtccacc taaactgttag ttgtctgccc tgcataatcc ttgctgcttc 900  
59 cagctctgcc ccatcccttcc tccagttgtct gttcctgagt aggggcagg gaaataggag 960  
60 cagagttgca aaagaggctg aggaggcat gacttcatca ctttgggttgg agaggaccag 1020  
61 ctatgtgtt gggcattttt ggttagttttt ttatatcatt tgattaataa aaatatttgg 1080

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62 aaatgtaaag aaaaaaaaaaag aaaaaaaaaacat gggggccgaaa ccttatcccc cttgagtagg 1140  
 63 gtgatatttt gcgtgtgcaa tggcgccct gtttcgaga ggcgggtgaca tggggaaaac 1200  
 64 atgggggtgt accaaacctt aaccgcctt taggggaaac acccctttg ccgcaagtgg 1260  
 65 gttaataacg gaagaagccc ggcggattg ccctcacaa gagtctccc cgtagatgc 1320  
 66 ggtatggaca gcccccttcg gcggcgttta gagcggcgtg tgggtgtgtt ctacgcgaat 1380  
 67 agggataaaat attgtggcgg cgccgaggga gtgtgtgtgt tgccgcctg cttctgtgga 1440  
 68 ggtgggtgtgt cccaaaaact aaaaggggccc ttttgcgcgt gtaggttgc tctagcagag 1500  
 W--> 69 tccgctgcac atattttgtt gggcgtgtcc gtgcgcggcc ngtgtgtgtc ttttgcgtggc 1560  
 70 gtggcgtggg gtgggtgtgg ttgcgggggt ggtcgtttt ggtgtgtgcg tgccgcggg 1620  
 71 ggcgtgtgt gtgtgtgggt gcatgataag gtagaggtga gtgagagcgg 1670  
 74 <210> SEQ ID NO: 3  
 75 <211> LENGTH: 131  
 76 <212> TYPE: PRT  
 77 <213> ORGANISM: Mus sp.  
 79 <400> SEQUENCE: 3  
 80 Ser Ile Ser Ser Cys Gly Ala Gly Tyr Arg Thr Asp Asp Lys Thr Gln  
 81 1 5 10 15  
 83 Leu Thr Glu Gly Arg Thr Ser Val Pro Gly Thr Met Gly Gln Cys Arg  
 84 20 25 30  
 86 Ser Ala Asn Ala Glu Asp Ala Gln Glu Phe Ser Asp Val Glu Arg Ala  
 87 35 40 45  
 89 Ile Glu Thr Leu Ile Lys Asn Phe His Lys Tyr Ser Val Ala Gly Lys  
 90 50 55 60  
 92 Lys Glu Thr Leu Thr Pro Ala Glu Leu Arg Asp Leu Val Thr Gln Gln  
 93 65 70 75 80  
 95 Leu Pro His Leu Met Pro Ser Asn Cys Gly Leu Glu Glu Lys Ile Ala  
 96 85 90 95  
 98 Asn Leu Gly Asn Cys Asn Asp Ser Lys Leu Glu Phe Gly Ser Phe Trp  
 99 100 105 110  
 101 Glu Leu Ile Gly Glu Ala Ala Lys Ser Val Lys Met Glu Arg Pro Val  
 102 115 120 125  
 104 Thr Arg Ser  
 105 130  
 108 <210> SEQ ID NO: 4  
 109 <211> LENGTH: 357  
 110 <212> TYPE: DNA  
 111 <213> ORGANISM: Homo sapiens  
 113 <220> FEATURE:  
 114 <221> NAME/KEY: modified\_base  
 115 <222> LOCATION: (231)  
 116 <223> OTHER INFORMATION: "n" represents a, t, c, g, other or unknown  
 118 <220> FEATURE:  
 119 <221> NAME/KEY: modified\_base  
 120 <222> LOCATION: (337)  
 121 <223> OTHER INFORMATION: "n" represents a, t, c, g, other or unknown  
 123 <400> SEQUENCE: 4  
 124 ataggacaac agaactctca ccaaaggacc agacacagtg agcaccatgg gacagtgtcg 60  
 125 gtcagccaaac gcagaggatg ctcaggaatt cagtatgtg gagagggcca ttgagaccct 120  
 126 catcaagaac tttcaccagt actccgtgga ggggtggaaag gagacgctga ccccttctga 180

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W--> 127 gctacgggac ctggtcaccc agcagctgcc ccatctcatg ccgagcaact ntggcctgga 240  
128 agagaaaatt gccaacctgg gcagctgcaa tgactctaaa ctggagttca ggagttctg 300  
W--> 129 ggagctgatt ggagaagcgg ccaagagtgt gaagctngag aggactgtcc gggggca 357  
132 <210> SEQ ID NO: 5  
133 <211> LENGTH: 379  
134 <212> TYPE: DNA  
135 <213> ORGANISM: Homo sapiens  
137 <400> SEQUENCE: 5  
138 gaattccaga gggagttctc agtgccccc gacaggcctc tccagcttca cactcttggc 60  
139 cgcttctcca atcagctccc agaaaactccat gaactccagt ttagagtcat tgcaagctgcc 120  
140 caggttggca attttcttcc ccaggccaca gttgctcggc atgagatggg gcagctgctg 180  
141 ggtgaccagg tcccgttagct cagaaggggt cagcgtctcc ttcccaccct ccacggagta 240  
142 ctggtgaaag ttcttgatga gggctctcaat ggcctctcc acatcactga attcctgagc 300  
143 atcctctgcg ttggctgacc gacactgtcc catggtgctc actgtgtctg gtcctttgg 360  
144 gagagttctg ttgtccat 379  
147 <210> SEQ ID NO: 6  
148 <211> LENGTH: 118  
149 <212> TYPE: PRT  
150 <213> ORGANISM: Homo sapiens  
152 <400> SEQUENCE: 6  
153 Asp Asn Arg Thr Leu Thr Lys Gly Pro Asp Thr Val Ser Thr Met Gly  
154 1 5 10 15  
156 Gln Cys Arg Ser Ala Asn Ala Glu Asp Ala Gln Glu Phe Ser Asp Val  
157 20 25 30  
159 Glu Arg Ala Ile Glu Thr Leu Ile Lys Asn Phe His Gln Tyr Ser Val  
160 35 40 45  
162 Glu Gly Gly Lys Glu Thr Leu Thr Pro Ser Glu Leu Arg Asp Leu Val  
163 50 55 60  
165 Thr Gln Gln Leu Pro His Leu Met Pro Ser Asn Cys Gly Leu Glu Glu  
166 65 70 75 80  
168 Lys Ile Ala Asn Leu Gly Ser Cys Asn Asp Ser Lys Leu Glu Phe Arg  
169 85 90 95  
171 Ser Phe Trp Glu Leu Ile Gly Glu Ala Ala Lys Ser Val Lys Leu Glu  
172 100 105 110  
174 Arg Pro Val Arg Gly His  
175 115  
178 <210> SEQ ID NO: 7  
179 <211> LENGTH: 20  
180 <212> TYPE: DNA  
181 <213> ORGANISM: Artificial Sequence  
183 <220> FEATURE:  
184 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
186 <400> SEQUENCE: 7  
187 cttgatgagg gtctcaatgg 20  
190 <210> SEQ ID NO: 8  
191 <211> LENGTH: 26  
192 <212> TYPE: DNA  
193 <213> ORGANISM: Artificial Sequence  
195 <220> FEATURE:

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196 <223> OTHER INFORMATION: Description of Artificial Sequence: Probe ✓  
 198 <400> SEQUENCE: 8  
 199 ccacatcaact gaattcctga gcatcc 26  
 202 <210> SEQ ID NO: 9  
 203 <211> LENGTH: 20  
 204 <212> TYPE: DNA  
 205 <213> ORGANISM: Artificial Sequence ✓  
 207 <220> FEATURE:  
 208 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ✓  
 210 <400> SEQUENCE: 9  
 211 cagacacagt gagcaccatg 20  
 214 <210> SEQ ID NO: 10  
 215 <211> LENGTH: 98  
 216 <212> TYPE: PRT  
 217 <213> ORGANISM: Homo sapiens  
 219 <400> SEQUENCE: 10  
 220 Met Ala Ala Glu Pro Leu Thr Glu Leu Glu Glu Ser Ile Glu Thr Val  
 221 1 5 10 15  
 223 Val Thr Thr Phe Phe Thr Ala Arg Gln Glu Gly Arg Lys Asp Ser  
 224 20 25 30  
 226 Leu Ser Val Asn Glu Phe Lys Glu Leu Val Thr Gln Gln Leu Pro His  
 227 35 40 45  
 229 Leu Leu Lys Asp Val Gly Ser Leu Asp Glu Lys Met Lys Ser Leu Asp  
 230 50 55 60  
 232 Val Asn Gln Asp Ser Glu Leu Lys Phe Asn Glu Tyr Trp Arg Leu Ile  
 233 65 70 75 80  
 235 Gly Glu Leu Ala Lys Glu Ile Arg Lys Lys Lys Asp Leu Lys Ile Arg  
 236 85 90 95  
 238 Lys Lys  
 242 <210> SEQ ID NO: 11  
 243 <211> LENGTH: 110  
 244 <212> TYPE: PRT  
 245 <213> ORGANISM: Homo sapiens  
 247 <400> SEQUENCE: 11  
 248 Met Ser Gln Leu Glu Arg Asn Ile Glu Thr Ile Ile Asn Thr Phe His  
 249 1 5 10 15  
 251 Gln Tyr Ser Val Lys Leu Gly His Pro Asp Thr Leu Asn Gln Gly Glu  
 252 20 25 30  
 254 Phe Lys Glu Leu Val Arg Lys Asp Leu Gln Asn Phe Leu Lys Lys Glu  
 255 35 40 45  
 257 Asn Lys Asn Glu Lys Val Ile Glu His Ile Met Glu Asp Leu Asp Thr  
 258 50 55 60  
 260 Asn Ala Asp Lys Gln Leu Ser Phe Glu Glu Phe Ile Met Leu Met Ala  
 261 65 70 75 80  
 263 Arg Leu Thr Trp Ala Ser His Glu Lys Met His Glu Gly Asp Glu Gly  
 264 85 90 95  
 266 Pro Gly His His Lys Pro Gly Leu Gly Glu Gly Thr Pro  
 267 100 105 110  
 270 <210> SEQ ID NO: 12

RAW SEQUENCE LISTING  
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Input Set : A:\09-715,418 sequence listing Attorney docket 10716-12.txt  
Output Set: N:\CRF3\10192001\I715418.raw

271 <211> LENGTH: 37  
272 <212> TYPE: PRT  
273 <213> ORGANISM: Unknown Organism ✓  
275 <220> FEATURE:  
276 <223> OTHER INFORMATION: Description of Unknown Organism: 3-100/ICaBP type ✓  
277 calcium binding protein  
279 <400> SEQUENCE: 12  
280 Ser Asn Cys Gly Leu Glu Glu Lys Ile Ala Asn Leu Gly Ser Cys Asn  
281 1 5 10 15  
283 Asp Ser Lys Leu Glu Phe Arg Ser Phe Trp Glu Leu Ile Gly Glu Ala  
284 20 25 30  
286 Ala Lys Ser Val Lys  
287 35  
290 <210> SEQ ID NO: 13  
291 <211> LENGTH: 37  
292 <212> TYPE: PRT ✓  
293 <213> ORGANISM: Unknown Organism ✓  
295 <220> FEATURE:  
296 <223> OTHER INFORMATION: Description of Unknown Organism: 3-100/ICaBP type ✓  
297 calcium binding protein  
299 <400> SEQUENCE: 13  
300 Asp Val Glu Arg Ala Ile Glu Thr Leu Ile Lys Asn Phe His Gln Tyr  
301 1 5 10 15  
303 Ser Val Glu Gly Gly Lys Glu Thr Leu Thr Pro Ser Glu Leu Arg Asp  
304 20 25 30  
306 Leu Val Thr Gln Gln  
307 35  
310 <210> SEQ ID NO: 14  
311 <211> LENGTH: 19  
312 <212> TYPE: PRT ✓  
313 <213> ORGANISM: Unknown Organism ✓  
315 <220> FEATURE:  
316 <223> OTHER INFORMATION: Description of Unknown Organism: Bacterial type II ✓  
317 secretion system protein F  
319 <400> SEQUENCE: 14  
320 Val Thr Gln Gln Leu Pro His Leu Met Pro Ser Asn Cys Gly Leu Glu  
321 1 5 10 15  
323 Glu Lys Ile  
327 <210> SEQ ID NO: 15  
328 <211> LENGTH: 10  
329 <212> TYPE: PRT ✓  
330 <213> ORGANISM: Unknown Organism ✓  
332 <220> FEATURE:  
333 <223> OTHER INFORMATION: Description of Unknown Organism: Ubiquitin ✓  
334 carboxyl-terminal hydrolases family  
336 <400> SEQUENCE: 15  
337 Ala Asn Ala Glu Asp Ala Gln Glu Phe Ser  
338 1 5 10  
341 <210> SEQ ID NO: 16

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/715,418

DATE: 10/19/2001  
TIME: 11:25:01

Input Set : A:\09-715,418 sequence listing Attorney docket 10716-12.txt  
Output Set: N:\CRF3\10192001\I715418.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4